

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATIONS**

Bid Opening 02-14-03

The following specifications are supplementary to the 2003 Edition of the *Standard Specifications for Road and Bridge Construction* as they apply to this Contract.

105.06 CHARACTER OF WORKERS ...	Page 38	02-14-03
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Section 105.06 C. first sentence "with" should be "without."

106.09 BUY AMERICAN PRODUCTS.	Page 48	02-14-03
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Delete the heading of Section 106.09 and replace with the following:

106.09 BUY AMERICA PRODUCTS.

304.04 CONSTRUCTION REQUIREMENTS.	Page 155	02-14-03
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Delete the first sentence in Section 302.04 B.2. and insert the following:

2. Compaction. Compaction of the permeable base shall be according to Section 302.04 D. except the roller shall be a 10 ton, double drum, steel wheeled roller.
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306.04 CONSTRUCTION REQUIREMENTS.	Page 160	02-14-03
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Delete the second sentence of Section 306.04 H. in its entirety and insert the following:

The surface shall be finished using a Surface Tolerance Type B as specified in Section 302.04 F.

Delete the table for the Determination of Surface Area in Section 409.04 B.2.c. and insert the following table:

Determination of Surface Area

Sieve Analysis % Passing								
Sieve	Maximum Size	No. 4	No. 8	No. 16	No. 30	No. 50	No. 100	No. 200
Combined Grading	***	***	***	***	***	***	***	***
Coefficient	0.02	0.02	0.04	0.08	0.14	0.30	0.60	1.60

Delete Table 1 of Section 410.02 B. and insert the following:

**Table 1
Initial Control Points for Superpave Aggregate Blend Gradation**

Sieve Size	Nominal Aggregate Size* ½" (12.5 mm) % Passing	
	min	max
5/8" (15.9 mm)	100	100
½" (12.5 mm)	90	100
#8 (2.36 mm)	28	58
#200 (75 F)	2.0	7.0

*Nominal aggregate size is defined as one sieve size larger than the first sieve to retain more than 10 percent.

Delete the table for the Determination of Surface Area in Section 410.04 B.1. and insert the following table:

Determination of Surface Area

Sieve Analysis % Passing								
Sieve	Maximum Size	No. 4	No. 8	No. 16	No. 30	No. 50	No. 100	No. 200
Combined Grading	***	***	***	***	***	***	***	***
Coefficient	0.02	0.02	0.04	0.08	0.14	0.30	0.60	1.60

Delete the title of Table 5 in Section 410.04 B.1. and insert the following:

**TABLE 5
MIX DESIGN**

Delete Section 410.04 B.2.c and 410.04 B.2.d in their entirety and insert the following:

- c. 1/2% above the optimum AC content determined by the Trial Mix Design.
- d. 1.0% below the optimum AC content determined by the Trial Mix Design.

Delete Section 410.05 C.1.b. in its entirety and insert the following:

- b. Compact two gyratory specimens with each sample taken to determine the field gyratory density. The number of gyrations applied to the gyratory specimens shall be as specified in the plans, and the temperature of the mix shall be 270⁰ F plus or minus 55⁰ F; and

Add the following to the first paragraph in Section 550.05 D.:

When separate payment is not made for Doweled Expansion or Contraction Joint Assemblies, the cost to provide and install the assemblies will be incidental to the Concrete Pavement.

570.04 CONSTRUCTION REQUIREMENTS.**Page 277****02-14-03**

Delete the first paragraph in Section 570.04 A.1. and insert the following:

1. Restoring the Subgrade. Concrete in full depth repair areas shall be removed by lifting with adequately sized equipment that will minimize disruption to the existing subgrade. Construction equipment will not be allowed in areas where the concrete has been removed. Voids deeper than one inch beneath the removed concrete shall be filled and compacted with granular fill as directed by the Engineer.

834.04 PERMANENT METAL CONCRETE FORMS.**Page 532****02-14-03**

Delete the paragraph in Section 834.04 in its entirety and insert the following:

Permanent metal forms for concrete floor slabs shall be of zinc-coated (galvanized) steel sheets meeting ASTM A924 with coating class of G235 according to ASTM A635.

894.05 POSTS AND HARDWARE FOR SIGNS.**Page 575****02-14-03**

Section 894.05 B.1., second paragraph - "Section 5" should be "Section 6" and "Section 4" should be "Section 5."

894.06 DELINEATORS**Page 579****02-14-03**

Delete the table in Section 894.06 B.2.c. and insert the following:

COEFFICIENT OF LUMINOUS INTENSITY cd/lx		
CRYSTAL	YELLOW	RED
11.0	6.6	2.7
4.4	2.6	1.0

772.03 CONSTRUCTION REQUIREMENTS.**Page 30, Vol. 2.****02-14-03**

Delete Sections 772.03 T.1, 772.03 T.2, and 772.03 T.3., and insert the following:

1. **Initial Inspection.** An initial functional inspection shall be made approximately 15 days after all signals or flashing beacons under the Contract are operational, except when snow or ice conditions are present preventing observation of installed equipment, or when extreme cold conditions prevent proper observation of equipment operations and adjustments.
 - a. When the above conditions exist, the initial inspection will be delayed. The Engineer will determine when conditions have improved so the inspection can be scheduled.

- b. During the time of delayed inspection, all signals or flashing beacons in operation shall be maintained by the Contractor. When conditions permit initial inspection to be performed, the other inspections will be performed as specified.
- 2. **Final Inspection.** A final functional inspection will be made 30 or more days after the initial inspection. The Contractor will request the Engineer to schedule the final inspection. The Engineer shall notify the Traffic Operations Engineer to coordinate a time for the final inspection. The final inspection shall not be made until all malfunctions noted on the initial inspection have been corrected. The traffic signals or flashing beacons shall be in operation during this time. When snow, ice or extreme cold conditions are present preventing the proper observation of the installed equipment, the final inspection will be delayed. The Engineer will determine when the conditions have improved so the inspection can be scheduled. The Contractor shall maintain the signals or flashing beacons during the period between the initial inspection and final functional inspection.
- 3. **Final Acceptance.** Final acceptance will not be made until the system has been operating for 14 consecutive days after the final inspection without interruption due to malfunctions attributable to defective equipment or improper workmanship. The Contractor shall be responsible for the electrical and communications costs for the system until the traffic signals and/or flashing beacons are accepted by the State.

895.03 CONDUCTORS.

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Delete the last two sentences of Section 895.03 B.2.a.
